STATE OF MAINE

APPLICATION FOR A RADIOACTIVE MATERIAL LICENSE FOR MEDICAL USE

INSTRUCTIONS: This application complies with the license requirements of Section C of the State of Maine Rules Relating to Radiation Protection (SMRRRP). Complete items 1 through 12. Supplemental sheets may be needed for items 5 through 11. Mail the completed application to: Radiation Control Program, 11 State House Station, Augusta, Maine, 04333. Telephone: (207) 287-5676.

The Department of Human Services does not discriminate on the basis of disability, race, color, creed, gender, age or national origin in admission to, access to, or operations of its programs, services or activities, or its hiring or employment practices. This information is available in alternate formats upon request.

employment practices. This informulation of the second of		nate formats upon	request.
NEW LICENSE	(oncok onc)		LICENSE NUMBER (leave blank)
RENEWAL of license number	er >		
AMENDMENT of license nur	nber >		
		•	
2. NAME AND MAILING ADDRES	55 OF APPLICANT		(ES) WHERE MATERIAL WILL AND/OR STORED.
PHONE:		PHONE:	
4. NAME OF PERSON TO BE COI	NTACTED ABOUT THIS AP	PLICATION	
NAME:	PHONE:		EMAIL:
For items 5 through 11 the reques	stad information may be s	uhmittad on standa	ord size paper Answer all items. For

For items 5 through 11, the requested information may be submitted on standard size paper. Answer all items. For any that do not apply, answer by giving the item number with "not applicable" after it.

- 5. RADIOACTIVE MATERIAL and
- 6. PURPOSE AND USE

A: Radioactive Material for medical use: Please place an "X" next to all the disciplines you wish to be licensed for.

Yes	Radioisotope	Form or Manufacturer /Model No.	Maximum Quantity	Purpose of Use
	Any radioactive material permitted by G.100	Any	As needed	Any uptake, dilution, and excretion study permitted by G.100.
	Any radioactive material permitted by G.200	Any	As needed	Any imaging and localization study permitted by G.200.
	Any radioactive material permitted by G.300	Any	millicurie	Any radiopharmaceutical therapy procedure permitted by G.300.
	lodine-131	Any	millicurie	Administration of I-131 sodium iodide.
	Radioactive material permitted by G.400 (Radionuclide	Sealed sources (Manufacturer Model No)	millicurie	Any brachytherapy procedure permitted by G.400.

Yes	Radioisotope	Form or Manufacturer /Model No.	Maximum Quantity	Purpose of Use
	Radioactive material permitted by G.400 (Radionuclide	Sealed sources (Manufacturer	millicurie	Any brachytherapy procedure permitted by G.400.
	Radioactive material permitted by G.400 (Radionuclide	Model No) Sealed sources (Manufacturer	millicurie	Any brachytherapy procedure permitted by G.400.
	Radioactive material permitted by G.400 (Radionuclide	Sealed sources (Manufacturer Model No)	millicurie	Any brachytherapy procedure permitted by G.400.
	Strontium-90	Sealed sources (Manufacturer Model No)	millicurie	Treatment of superficial eye conditions using an applicator distributed pursuant to C.11.K. and permitted by G.400.
	Radioactive material permitted by G.500 Check all that apply: Gd-153 I-125 Other, describe	Sealed sources (Manufacturer, Model No)	As needed	Diagnostic medical use of sealed sources permitted by G.500 in compatible devices registered pursuant to C.7.
	Iridium-192	Sealed sources (Manufacturer Model No)	curies per source and curies total	One source for medical use permitted by G.600, in a Manufacturer Model No remote afterloading brachytherapy device. One source in its shipping container as necessary for replacement of the source in the remote afterloader device.
	Cobalt-60	Sealed sources (Manufacturer Model No)	curies per source and curies total	One source for medical use permitted by G.600, in a Manufacturer Model No teletheray unit. One source in its shipping container as necessary for replacement of the source in the teletherapy device.
	Cobalt 60	Sealed sources (Manufacturer	curies per source and curies total	For medical use permitted by G.600, in a Manufacturer Model No
	Any radioactive material under C.6.F.	Prepackaged kits	millicurie	In-vitro studies.
	Depleted uranium	Metal	kilograms	Shielding in a teletherapy unit.

Yes	Radioisotope	Form or Manufacturer /Model No.	Maximum Quantity	Purpose of Use
	Depleted uranium	Metal	kilograms	Shielding in a linear accelerator.
	Any radionuclide in excess of 30 millicuries for use in calibration, tranmsmission, and reference sources. (List radionuclide:	Sealed source or device (Manufacturer Model No)	millicurie	For use in a Manufacturer Model No for calibration and checking of licensee's survey instruments.
	Americium-241	Sealed source or device (Manufacturer Model No)	millicurie per source and millicurie total	Use as an anatomical marker.
	Plutonium (principal radionuclide PU-238)	Sealed Sources	millicuries per source and grams total	As a component of Manufacturer Model No nuclear-powered cardiac pacemakers for clical evaluation in accordance with manufacturer's protocol dated The authorization includes: follow- up, explantation, recovery, disposal, and implantation.
	Other (please specify)	Form or Manufacturer/Model No.	millicurie	Purpose of use

If Financial Assurance is required then Evidence of Financial Assurance must be provided

7. INDIVIDUALS RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE

7	.1 RADIATION SAFETY OFFICER (RSO):							
Na	me: Telephone: Fax: e-mail:							
	Previous license number (if issued by the Agency) or a copy of the license (if issued by the NRC or an Agreement State) that authorized the uses requested and on which the individual was specifically named as the RSO							
	OR Copy of the certification(s) for the board(s) recognized by the Agency and is applicable to the types of use for which he or she has RSO responsibilities							
	OR Training and Experience and Preceptor Statement (Form HHE-853) is provided.							
	Provide a description of recent related continuing education and experience as required by Part G.22, if applicable.							
	We have established, in writing, the authority, duties, and responsibilities of the RSO.							
·	We will ensure that the RSO is authorized to stop unsafe operation; and has sufficient time to perform radiation safety duties and responsibilities.							

7.2	AUTHORIZED USERS (AUs) NAMES AND REQUESTED USES FOR EACH INDIVIDUAL: List the names of all
	proposed Authorized Users and the uses requested. Provide a previous license number (if issued by the Agency) or a
	copy of the license (if issued by the NRC or an Agreement State) that authorizes the uses requested or complete a
	Training and Experience and Preceptor Statement Form (HHE853) for each individual and provide a copy of the
	certification(s) for the board(s) recognized by the Agency under Part G; Subparts D, E, F, G, H, and as applicable to
	the use requested. Provide a description of recent related continuing education and experience as required by Part
	G.22, if applicable.

73	AUTHORIZED NUCLEAR PHARMACIST	(ANP)	١-
<i>i</i> .3	AUTHORIZED NUCLEAR FRANKIACIST	(MINE)	Į.

Name:	Telephone:	Fax:	e-mail:
on which the individual	was specifically named ANP;		(if issued by the NRC or an Agreement Sta
	cation(s) for the radiopharmacy be rience and Preceptor Statement		by the Agency under Part G. 20 or G. 980;
	•		
<u> </u>	f recent related continuing educa	ation and experienc	e as required by Part G.22, if applicable.
			1
Name:	Telephone:	Fax:	e-mail:
	er (if issued by the Agency) or a was specifically named as an Al		(if issued by the NRC or an Agreement Sta
	cation(s) for the board(s) recognize		
OR Training and Expo	erience and Preceptor Statement	(Form HHE-853) is	s provided.
Provide a description of	f recent related continuing educa	ation and experienc	e as required by Part G.22, if applicable.
We have developed ar	FOR INDIVIDUALS WORKING and will implement and maintain the		as outlined in Appendix J of NUREG 1556,
Vol. 9. OR Provide equivaler	t propoduros		
	Provide the following on the facilit		ngs will be to scale and indicate scale): e radioactive material is prepared, used or
	er(s), and principal use of each		ncluding areas above, beside, and below nrestricted area.
	rooms where patients will be heard and a description of the shieldi		not be released under G.30. (This should
			and density of any necessary shielding to ption of any portable shields used.
The directions of prim	ary beam usage for teletherapy (units and, in the ca	se of an isocentric unit, the plane of beam

Radiation monitoring instruments will be calibrated by a person qualified to perform survey meter calibration. We have developed and will implement and maintain the procedures as outlined in Appendix K of NUREG 1556, Vol. 9. OR Provide equivalent procedures. Provide a description of the instrumentation that will be used to perform required surveys. We reserve the right to upgrade our survey instruments as necessary as long as they are adequate to measure the type and level of radiation for which they are used. 3.3 Dose Calibrator And Other Dosage Measuring Equipment Equipment used to measure dosages will be calibrated in accordance with nationally recognized standards or the manufacturer's instructions. 9.4 Therapy Unit - Calibration And Use Full calibrations of sealed sources and devices will be in accordance with published protocols accepted by nationally recognized bodies (e.g. AAPM, ACR, ANSI). Provide the procedures required by G.609, G.610, and G.611, if applicable to the license application. 9.5 Other Equipment And Facilities Provide a description of additional facilities and equipment. For manual brachytherapy facilities, provide a description of emergency response equipment. For teletherapy, GSR, and remote afterloader facilities, provide a description of the following: Warning systems and restricted area controls for each therapy treatment room; Area radiation monitoring equipment; Viewing and intercom systems (except LDR units); Steps that will be taken to ensure that no two units can be operated simultaneously, if other radiation-producing equipment are in the treatment room; Methods to ensure that whenever the device is not in use or is unattended, the console keys will be inaccessible to unauthorized persons; and Emergency response equipment. 10.1 Safety Procedures And Instructions Provide the procedures required by G.604. 10.2 Occupational Dose We will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radia	9.2 Radiation Monitoring Instruments
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Vol. 9. We will develop, implement , and maintain the procedures as outlined in Appendix M to NUREG 1556, Vol. 9.	
· · ·	
 	We will develop implement, and maintain the procedures as outlined in Appendix M to NUREC 1556, Vol. 9
	OR Provide a description of an alternative method for demonstrating compliance with the regulations.

10).3	Area	Surv	/evs
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We have developed and will implement and maintain the procedures as outlined in Appendix R to NUREG	1556,
Vol. 9.	

OR Provide equivalent procedures.

10.4 Safe Use Of Unsealed Licensed Material

We have de	eveloped a	and will	implement	and	maintain	the	procedures	as	outlined	in Appendix	T to NUREG	1556,
Vol. 9.												

OR Provide equivalent procedures.

10.5 Spill Procedures

e have developed and will implement and maintain the procedures as outlined in Appendix N to NUREG 1556	<u>ئ</u> ,
ol. 9.	

OR Provide equivalent procedures.

10.6 Installation, Maintenance, Adjustment, Repair, And Inspection Of Therapy Devices Containing Sealed Sources

We will contract with personnel who are licensed to perform such services

OR Name of proposed employee and types of activities requested:

Provide a description of the training and experience demonstrating that the proposed employee is qualified by training and experience for the use requested, and

Provide a copy of the manufacturer's training certification and an outline of the training in procedures to be followed.

10.7 Minimization Of Contamination

Provide a description of how facility design and procedures for operation, will minimize, to the extent practicable, contamination of the facility and the environment, facilitate eventual decommissioning, and minimize, to the extent practicable, the generation of radioactive waste.

10.8 Public Dose

We will ensure that licensed material will be used, transported, and stored in such a way that members of the public will not receive more than 1 mSv (100 mrem) in 1 year, and the dose in any unrestricted area will nor exceed 0.02 mSv (2mrem) in any one hour from licensed operations.

We will ensure air emissions of radioactive materials to the environment will not result in exposures to individual members of the public in excess of 0.1mSv (10 mrem) (TEDE) in one year from these emissions.

We will control and maintain constant surveillance of licensed material that is not in storage and secure stored licensed material from unauthorized access, removal, or use.

10.9 Opening Packages

We have developed and will implement and maintain the procedures as outlined in Appendix P to NUREG 1556, Vol. 9 (October 2002)

OR Provide equivalent procedures.

10.10 Procedures For Administrations When A Written Directive Is Required

We have developed and will implement and maintain the procedures as outlined in Appendix S to NUREG 1556, Vol. 9 (October 2002)

OR Provide equivalent procedures.

10.11 Release Of Patients Or Human Research Subjects
We have developed and will implement, and maintain the procedures as outlined in Appendix U to NUREG 1556,
Vol. 9.
OR provide equivalent procedures are provided.
On provide equivalent procedures are provided.
10.12 Mobile Nuclear Medicine Services
We have developed and will implement and maintain the procedures as outlined in Appendix V to NUREG 1556, Vol.
9.
OR Provide equivalent procedures.
10.13 Audit Program
We have developed and will implement and maintain the procedures as outlined in Appendix L toNUREG 1556, Vol.
9.
OR Provide equivalent procedures.
10.14 Operating And Emergency Procedures
We have developed and will implement and maintain specific operating and emergency procedures as outlined in
Appendix N to NUREG 1556, Vol. 9.
OR Provide equivalent procedures.
10.15 Material Receipt And Accountability
We will secure licensed material.
TVO WIII COCCUTO INCOLLOGA MACCINAN
We will maintain records of receipt, transfer, and disposal of licensed material.
We will conduct physical inventories at required frequencies to account for licensed material.
10.16 Ordering And Receiving
We have developed and will implement and maintain the procedures as outlined in Appendix O to NUREG 1556,
Vol. 9.
OR Provide equivalent procedures.
40.47 Cooled Course Inventory
10.17 Sealed Source Inventory
We will conduct a semi-annual physical inventory of all sealed sources and brachytherapy sources (individual GSR sources are exempt) in our possession.
Sources are exempty in our possession.
We will maintain records of GSR source receipt, transfer, and disposal to indicate the current inventory of sources at
our facility.
10.18 Records Of Dosages And Use Of Brachytherapy Source
We will make and maintain the records of each dosage and administration prior to medical use.
We will make and maintain the appropriate records for molybdenum concentrations.
We will make and maintain the appropriate records for the manual use of brachytherapy sources.
10.10 Pagardkaaning
10.19 Recordkeeping We will maintain records as outlined in Appendix X to NUREG 1556, Vol. 9.
we will maintain records as outlined in Appendix A to NONEO 1550, vol. 9.
10.20 Leak Test Procedures
We have developed and will implement and maintain the procedures as outlined in Appendix Q to NUREG 1556,
Vol. 9.
OR Provide equivalent procedures.

Con Treatments When Dationte And Heavitalized
For Treatments When Patients Are Hospitalized will implement procedures to ensure that access to therapy treatment rooms, and exposure
nents, are limited to maintain doses to occupational workers and members of the general
nits.
illo.
will implement and maintain a safety program for the transport of radioactive materials to
tate and Federal regulations.
ncy incidents that might compromise the health and safety of patients, health care providers,
Appendix Y to NUREG 1556, Vol. 9.
ncy by telephone immediately and followed by a written report within 30 days any event tin
pactive material is compromised.
aste Disposal
will implement and maintain the procedures as outlined in Appendix W to NUREG 1556,
rocedures.
oplicant and any official executing this certificate on behalf of the applicant named in item 2
epared in conformity with the State of Maine Rules Relating to Radiation Protection and that a
cluding any supplements attached hereto, is true and correct to the best of our knowledge an
SIGNATURE OF APPLICANT:
SIGNATURE OF AFFLICANT
TYPED/PRINTED NAME:
n n